

ALC™

OBSERVER

Wireless Video Surveillance System

Wireless Made Simple.

Wireless Outdoor Security Camera



ACCESSORY

Compatible with ALC AWS2155
Video Surveillance System

Model AWSC25

User Guide

Please read these instructions completely
before operating this product.

IMPORTANT SAFETY INSTRUCTIONS	2
INTRODUCTION	5
System Contents	5
Getting to Know Your Camera	6
INSTALLATION	7
Installation Tips	7
Night Vision	7
Installing the Camera(s)	8
Camera Pairing	10
Turning the Camera On or Off	12
Additional Features	12
MAINTENANCE	13
Monitor	13
Camera	13
TROUBLESHOOTING	14
PRODUCT SPECIFICATIONS	16
Camera	16
WARRANTY	17

PRODUCT SAFETY: When used in the directed manner, this unit has been designed and manufactured to ensure your personal safety. Improper use of this product can result in potential electrical shock or fire hazards. Please read all safety and operating instructions carefully before installation and use, and keep these instructions handy for future reference.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



DANGEROUS VOLTAGE: The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

ATTENTION: The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



Products with CE Marking comply with EMC Directive (2004/108/EC); Low Voltage Directive (73/23/EEC); R&TTE(1999/5/EC); ROHS Directive (2011/65/EU) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

EMC: EN 301 489 LVD: EN 60950 Radio: EN 300 328



FCC Compliance Statement: This device complies with Part 15 of the FCC rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC/CE WARNING

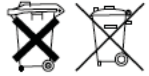
This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules and ETSI(EN) 300328. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Move the equipment away from the monitor.
- Plug the equipment into an outlet on a circuit different from that to which the monitor is connected.
- Consult the dealer or an experienced radio/television technician for additional suggestions.

CAUTION: Any changes or modifications to this equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Recycling and Disposal Information:

- Do not dispose of electronic devices or any of their components in your municipal trash collection.
- Consult your local waste management authority or a recycling organization like Earth911.com to find an electronics recycling facility in your area.



WARNING:

STRANGULATION HAZARD: Infants have STRANGLED in power cords. Keep power cords more than 3 feet away from cribs, bassinets, play yards, and other safe sleep environments for infants.

IMPORTANT SERVICE SAFETY INSTRUCTIONS

Damages caused by non-compliance with this operating manual will void the warranty!

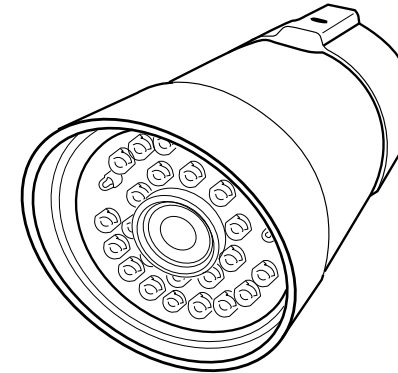
1. Read and Follow Instructions - All the safety and operating instructions should be read before the product is operated. Follow all operating instructions.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - Comply with all warnings on the product and in the operating instructions.
4. Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your location, consult your video dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
5. Overloading - Do not overload wall outlets or extension cords as this can result in the risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation, have it replaced by your service technician.
6. Power-Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
7. Surge Protectors - It is highly recommended that the video equipment be connected to a surge protector. Doing so will protect the equipment from damage caused by power surges. Surge protectors should bear the UL listing mark or CSA certification mark.
8. Uninterruptible Power Supplies (UPS) - Because this product is designed for continuous, 24/7 operation, it is recommended that you connect the product to an uninterruptible power supply. An uninterruptible power supply has an internal battery that will keep the product running in the event of a power outage. Uninterruptible power supplies should bear the UL listing mark or CSA certification mark.

CAUTION: Maintain electrical safety. Power line operated equipment or accessories connected to this product should bear the UL listing mark or CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.

9. Ventilation - Slots and openings in the case are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video equipment on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the product manufacturer's instructions have been followed.
10. Attachments - Do not use attachments unless recommended by the product manufacturer as they may cause a hazard.
11. Water and Moisture - Do not use receivers or video monitors near water — for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, near a swimming pool and the like.
12. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
13. Accessories - Do not place this video equipment on an unstable cart, stand, tripod, or table. The video equipment may fall, causing serious damage to the product. Use this product only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions and use a mounting accessory recommended by the manufacturer.
14. Camera Extension Cables - Check the rating of your extension cable(s) to verify compliance with your local authority regulations prior to installation.
15. Mounting - The cameras provided with this system should be mounted only as instructed in this guide or the instructions that came with your cameras, using the provided mounting brackets.
16. Camera Installation - Cameras are not intended for submersion in water. Not all cameras can be installed outdoors. Check your camera's environmental rating to confirm if it can be installed outdoors. When installing cameras outdoors, installation in a sheltered area is recommended.

System Contents

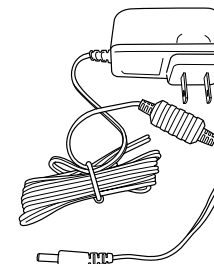
After unpacking, you will have the following items:



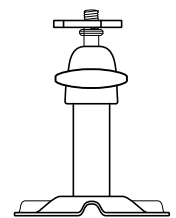
Camera



Antenna



AC Adapter



Camera Bracket



Screw/Anchor Kit

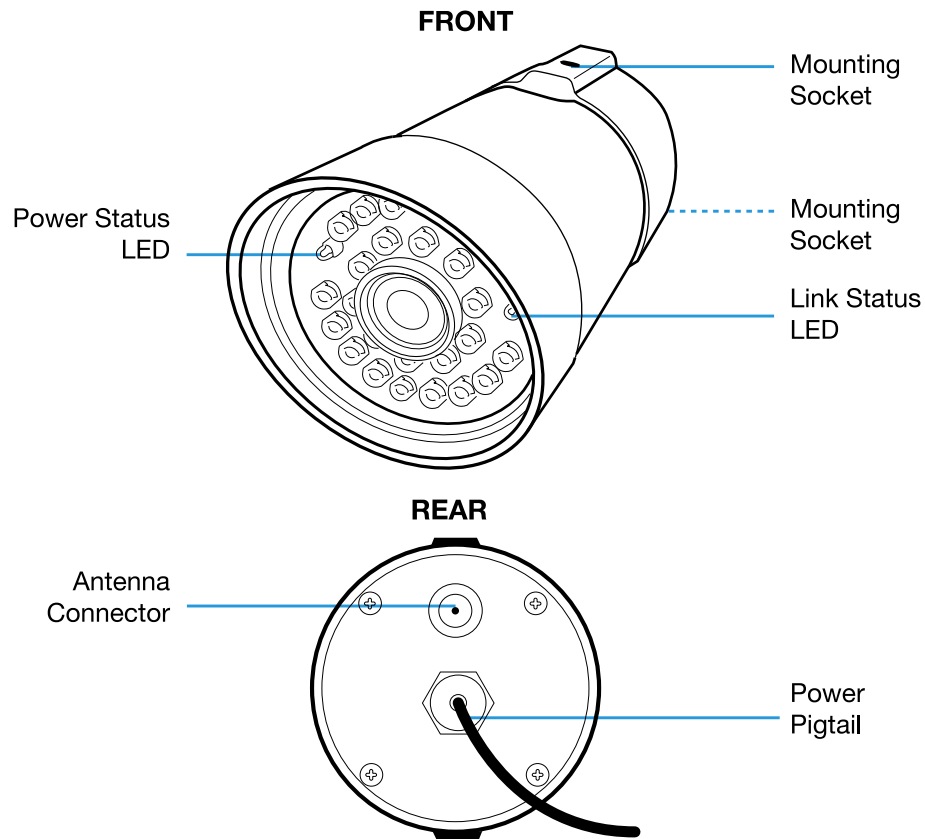


Extension Cable



Quick Start Guide

Getting to Know Your Camera



Installation Tips

WARNING:

Weatherproof, IP66 rated cameras are suitable for outdoor installation. However, if possible, it is recommended to install in a location that provides some shelter from the elements, such as beneath roof eaves.

- Before you install the camera, plan where and how it will be positioned, and where you will route the cable that connects the camera to the power adapter.
- Optimized motion detection range is 6 - 18 feet for camera. The farther away an object is, the less accurate the motion detection.
- Avoid having a direct light source in the view of the camera, including street lights, ceiling or floor lamps, spotlights in the driveway, etc.
- Rainfall, pool water ripples/reflections, tree/shrub leaves blowing in the wind – and the shadows they create – can generate motion detection false alarms.
- Before starting permanent installation, have another person check the camera image on the monitor with the camera positioned in the same place it will be permanently installed.
- It is recommended to ensure a clear line of sight between the camera and monitor and to limit the amount of obstructions, such as walls and tree branches, between the camera and monitor. Walls made of heavy building materials such as brick or concrete will significantly reduce signal range.
- If the signal will have to pass through a wall, placing the monitor or camera next to a window will improve the signal strength.
- Do not install the camera pointing out of a window. The night time picture will be unusable due to reflection from the night vision LEDs.
- The cameras are pre-paired so they work out of the box. If you have purchased additional cameras, you will need to pair them to the monitor, see “Camera Pairing” on page 24.
- As dust, grime, and cobwebs accumulate on the camera glass, they can reflect light from the infrared LED and might lower video quality. Periodically clean the lens glass with a soft cloth.
- If the camera is too close to the monitor, you may get a whistling interference sound. Simply move the camera away from the monitor to eliminate the interference sound.

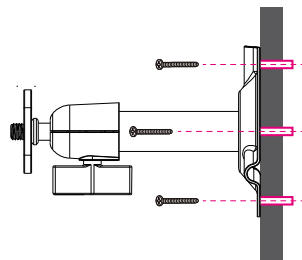
Night Vision

The camera has built-in infrared LEDs to allow you to view at night for 24-hour surveillance. The LEDs will automatically activate at night and the picture viewed will turn to black and white. The night viewing range is up to 40 feet.

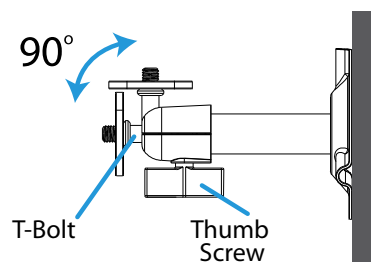
Installing the Camera(s)

1 If not mounting, but just using on a flat surface (desk, table, etc.), skip to step 4.

2 Secure the multi-position Camera Bracket to a stable surface, ceiling or wall using the three supplied screws. If needed, three anchors are also included.

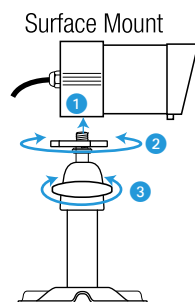


3 Loosen the T-Bolt on the Camera Bracket and adjust viewing angle using the Thumb Screw to rotate position.



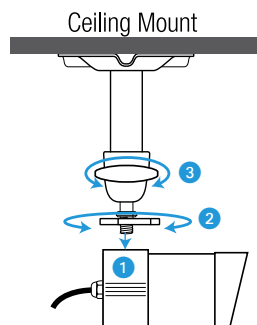
4 BOTTOM/SURFACE MOUNT:

- 1** Align Mounting socket on bottom of the camera with T-Bolt and screw camera onto the T-Bolt until it is in the desired position.
- 2** Tighten the Brace against the camera to secure it in place.
- 3** Set the desired camera angle and then tighten the Thumb Screw.



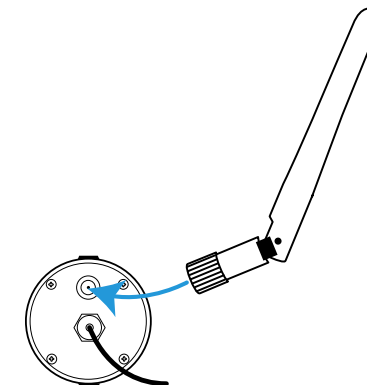
CEILING MOUNT:

- 1** Align Mounting socket on top of the camera with T-Bolt and screw camera onto it until it is in the desired position.
- 2** Tighten the Brace against the camera to secure it in place.
- 3** Set the desired camera angle and then tighten the Thumb Screw.



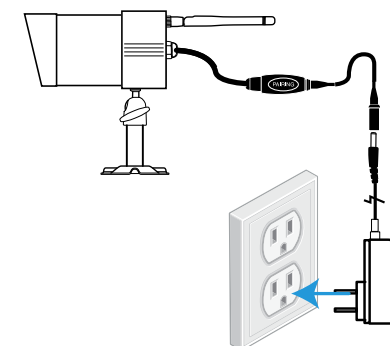
Installing the Camera(s)

5 Screw antenna clockwise into rear of the camera.



6 Connect one end of an AC adapter to the camera's power pigtail and plug the other end of the adapter to a 120 volt AC (standard indoor) power outlet.

This camera works with the AWS2155 base station, which should be turned on to connect the camera.

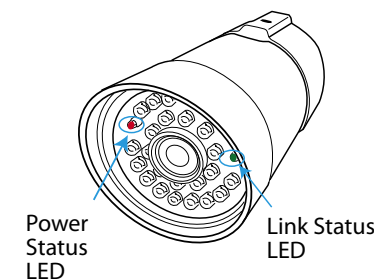


TIP: A 6 foot power extension cable is included for your camera setup if needed.

7 After up to 60 seconds, make sure the Power status LED turns red and the Link Status LED turns green. If it doesn't, try reconnecting the AC adapter, and make sure the power outlet is not controlled by a wall switch.

You should now have video on your Live screen.

Repeat steps for additional camera(s).

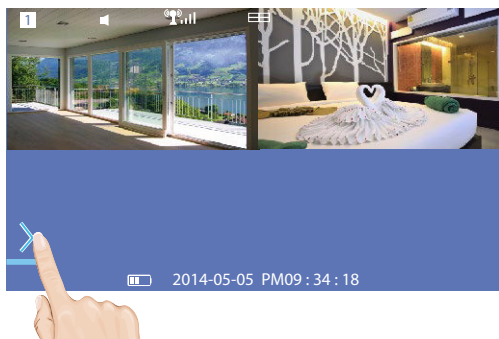


TIP: Pair camera as shown on the next page.

Camera Pairing

When you add a new camera to your system, you have to “introduce” the camera and monitor to each other so they can communicate.

- 1 Tap on the **Open/Close** icon to open the menu options.

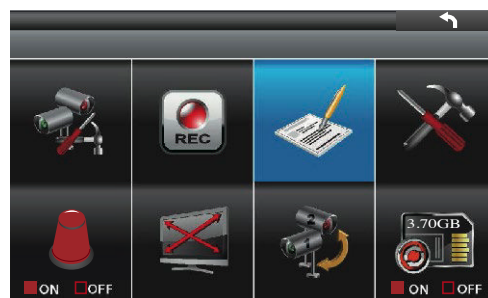


- 2 Tap the **Options** icon to enter the System menu.

TIP: If recording, you cannot enter the Options menu.



- 3 The following screen will appear. See the following pages for the System settings.

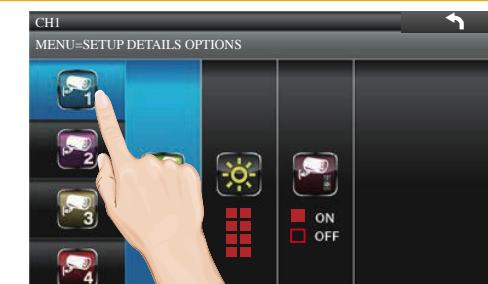


Camera Pairing

- 4 Follow steps 1 through 3 on the previous page to access the System Menu. Tap **Camera Setup** icon to access the Camera Setup screen.

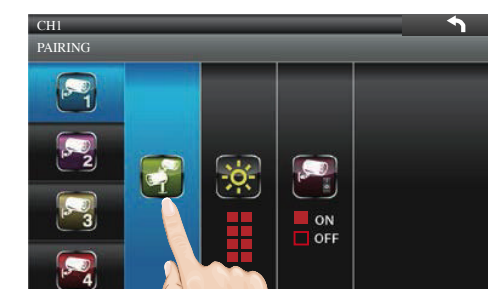


- 5 Tap the desired camera to pair.

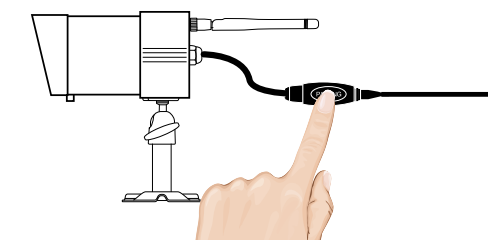


- 6 Tap the **Pairing** icon, “PAIRING” will appear at the top left of the screen.

“PAIRING FAIL” will appear if the pairing failed. Move the camera closer and try again.



- 7 Press and Hold the Pairing button on that camera's power cord until PAIRED appears in the display. The Green Link Status LED will light in the camera. If a camera is already assigned to the selected channel, the monitor overwrites that camera link with the new one.

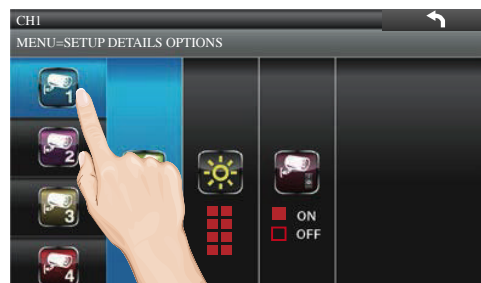


Turning a Camera On or Off

- 1 Follow steps 1 through 3 on page 10 to access the System Menu. Tap **Camera Setup** icon to access the Camera Setup screen.



- 2 Tap the desired camera that you want to turn on or off.



- 3 Repeatedly tap the **On/Off** icon to cycle between On or Off.



Additional Features

For additional features and setup, refer to the AWS2155 owner's manual.

Monitor

As you use your touch-screen monitor, fingerprints, etc. will appear on the screen. Keep the screen clean by wiping it with a microfiber cloth. It is not recommended to use any chemicals or harsh detergents on the touch screen.

Cameras

When dust and grime builds up on the camera lens and glass, it will affect the night vision capability. The infrared light reflects off of the dust and grime, limiting the camera's "vision." Use a microfiber cloth to regularly clean the cameras or when night vision video is cloudy or unclear.

Upgrading the Firmware

The latest firmware and how to install the firmware will be available under the Observer category on our support page at www.ALCWireless.com/support/.

If you have any trouble with your system, try these simple steps which should handle most common issues.

Problem	Possible Solution
No Image.	<p>Make sure the camera's power is on.</p> <p>Make sure the monitor has enough charge; connect it to the included adapter.</p> <p>Move the camera closer to the monitor; it might be out of range or flip the antenna of the monitor and/or camera to obtain best possible reception.</p> <p>If the monitor is connected to a PC, no image will appear.</p>
Poor picture quality.	<p>Move the camera closer to the monitor; it might be out of range or flip the antenna of the monitor and/or camera to obtain best possible reception.</p> <p>Clean the camera lens using a microfiber cloth.</p>
The motion sensor does not respond to movement.	<p>Ensure the camera is set to motion in the schedule section.</p> <p>Increase or decrease the sensitivity of the motion sensor.</p> <p>Part of the screen is set to mask.</p>
Standard or Scheduled recording is not working properly.	<p>Ensure the correct Date and Time have been set.</p> <p>Ensure the Record Schedule has been setup correctly,</p> <p>Ensure the micro SD card is inserted into the monitor and formatted.</p>
Unable to pair the camera to the monitor.	<p>There might be no movement detected, i.e. no moving object to trigger the motion sensor.</p> <p>Make sure the camera's power is on.</p> <p>Press and hold the pairing button quickly. Do not press and release it; see page 24.</p> <p>Turn off the monitor and restart. If power button does not respond, use a pin to press the reset button located on the side of the monitor.</p>
A white image appears at night.	<p>The camera's infrared LEDs shine invisible light that reflects off surfaces such as glass will cause white light. Place the camera on the other side of the window to improve the night vision or place it in a well-lit area (it is recommended to install a security lamp to improve lighting).</p>

Problem	Possible Solution
System has locked up.	<p>Turn off the monitor and restart. If power button does not respond, use a pin to press the reset button located on the side of the monitor.</p>
The camera's signal status icon shows no bars.	<p>Make sure the camera is plugged in and the red LED is on.</p> <p>Make sure the camera is paired to the correct channel; see page 10.</p> <p>Re-pair the camera to the monitor.</p> <p>Move the camera closer to the monitor; it might be out of range or flip the antenna of the monitor and/or camera to obtain best possible reception.</p>
Cannot remotely access camera(s).	<p>Make sure the software is installed and running on the PC. Also that both PC and Android/Apple device are on the same network.</p>

Camera

Communication Range	164 yd (150 m) in open space
Camera Resolution	640 X 480
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C)
Operating Voltage.....	DC 5V, 1A
Current Consumption	550 mA (MAX)
Night Vision	40 ft (12.2 m)
Dimensions.....	4.8L x 2.6H x 2.6W in (123L x 65H x 65W mm)
Recording Time on SD Card.....	1GB = Approx. 10 hours

One-Year Limited Warranty

Important: Evidence of original purchase is required for warranty service.

Atoms Labs LLC ("ALC") ELEMENTS OF WARRANTY: ALC warrants, if properly installed and used thereafter in strict accordance with the use and care guidelines provided in the instructions manual, the Product shall be free from manufacturing defects in material and workmanship for one (1) year from the documented date of purchase. The purchase date must be documented with either an original sales receipt from the first retailer selling the Product or by credit card receipts or statements. The warranty is non-transferrable.

LIMITED WARRANTY: The warranty terminates one year after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by ALC, (C) improperly installed, (D) serviced or repaired by someone other than an authorized ALC service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by ALC, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

THIS WARRANTY DOES NOT COVER DATA LOSS, OR COSTS RELATED TO DATA RECOVERY. ALC MAKES NO WARRANTY THAT ANY SOFTWARE PROVIDED WITH THE PRODUCT WILL FUNCTION WITHOUT INTERRUPTION OR OTHERWISE BE FREE OF ANOMALIES, ERRORS OR VIRUSES. THIS WARRANTY DOES NOT COVER ANY COSTS RELATING TO REMOVAL, REPLACEMENT, OR INSTALLATION OF ANY PRODUCT, REGARDLESS OF WHETHER THE PRODUCT IS FOUND BY ALC TO BE DEFECTIVE, OR SOFTWARE INSTALLED ON THE USER'S COMPUTER.

ALC DOES NOT MAKE ANY CLAIMS OR WARRANTIES OF ANY KIND WHATSOEVER REGARDING THE PRODUCT'S POTENTIAL, ABILITY OR EFFECTIVENESS TO PREVENT, MINIMIZE, OR IN ANY WAY AFFECT PERSONAL OR PROPERTY DAMAGE OR INJURY. ALC IS NOT RESPONSIBLE FOR ANY DAMAGE, LOSS OR THEFT RELATED TO THE PRODUCT OR TO ITS USE FOR ANY HARM, WHETHER PHYSICAL OR MENTAL RELATED THERETO. ANY AND ALL CLAIMS OR STATEMENTS, WHETHER WRITTEN OR VERBAL, BY SALESPEOPLE, RETAILERS, DEALERS OR DISTRIBUTORS TO THE CONTRARY ARE NOT AUTHORIZED BY ALC AND DO NOT AFFECT THIS PROVISION OF THIS WARRANTY. THE LIMITED WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF LOST REVENUE, PROFIT, OR DATA, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL, OR PUNITIVE DAMAGES HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. Your damages will be limited to the total purchase price you paid for the Product.

Use of audio or video equipment for recording the image of a person without their knowledge and consent is prohibited in certain states or jurisdictions. The end-user assumes all liability for compliance with applicable state, local and federal laws. Atoms Labs has no responsibility or liability for how the end-user uses a product. Wireless cameras require a wired connection to AC power outlet. Network conditions and environmental factors can adversely affect wireless signal range. Actual night vision range and image clarity depends on installation location, viewing area and light reflection / absorption.

This Product may only be sold in the United States of America and Canada. There is no warranty whatsoever on the Product outside of the United States of America and Canada.

STATEMENT OF REMEDY: If the Product is under warranty, ALC will either, at its option, repair or replace the defective Product and return it to you without charge for parts, service, or any other cost. ALC, at its option, may replace the Product with a new or refurbished Product.

WARRANTY

LEGAL REMEDIES: This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state. All parties irrevocably submit themselves to the exclusive venue and personal jurisdiction of the state and federal courts in Denton County, Texas with regard to any dispute relating to this Warranty or its enforcement. The parties also hereby waive any challenge to venue and personal jurisdiction they may have to a lawsuit filed in a state or federal court in Denton County, Texas, regarding a dispute between the parties relating to this Warranty or its enforcement. You agree that Atoms Labs is entitled to its reasonable and necessary attorney's fees if it is a prevailing party in litigation against you relating to this Warranty. If any provision of this Warranty is found to be invalid, illegal, or unenforceable, the validity, legality, and enforceability of any of the remaining provisions will not in any way be affected or impaired and a valid, legal, and enforceable provision of similar intent and economic impact will be substituted therefore.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts & accessories originally packaged with the Product. Include evidence of original purchase & a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Atoms labs LLC
2670 Firewheel Drive Suite D
Flower Mound, TX 75028
844-767-8544

9 a.m. to 6 p.m., Central Time, Monday through Friday

ALC reserves the right to make changes to its products without incurring any obligation to modify any product that has already been manufactured. This warranty does not cover any alteration or damage to any other software that may be or may become resident on the users system as a result of installing any software provided.

ALC appreciates your support and feedback! If you come across software bugs or ways we could improve our products, we would love to hear about them! Please email us at support@ALCWireless.com and you will hear back from us.



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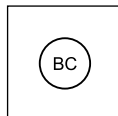


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If the camera system no longer functions or can no longer be repaired, it must be disposed of according to the valid statutory regulations. Disposal of spent batteries/accumulators:

You are required by law (Battery Ordinance) to return all spent batteries and accumulators. Disposing of spent batteries/accumulators with common household waste is prohibited! Batteries/accumulators that contain hazardous substances are marked with the symbols on the side. These symbols indicate that it is prohibited to dispose of these batteries/accumulators in the household waste. The abbreviations for the respective heavy metals are: Cd=cadmium, Hg=mercury, Pb=lead. You can return spent batteries and accumulators that can no longer be charged to the designated collection points in your community, outlets or wherever batteries or accumulators are sold. Following these instructions will allow you to fulfill the legal requirements and contribute to the protection of our environment!



102914_v1.2

ALCTM

Wireless Made Simple.

ALCWireless.com